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| FORM PTO-390 (REV 11-2000) | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | ATTORNEY DOCKET NUMBER 227-139 |
| TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371 | | U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.5) 09/806324 Unknown |
| INTERNATIONAL APPLICATION NO. PCT/FI99/00800 | INTERNATIONAL FILING DATE 29 September 1999 | PRIORITY DATE CLAIMED 30 September 1998 |

TITLE OF INVENTION
METHOD OF PROCESSING A PROTEINOUS MATERIAL, A PRODUCT SO OBTAINED, AND USE THEREOF


APPLICANT(S) FOR DO/EO/US
VAARALA et al.

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☒ The U.S. has been elected by the expiration of 19 months from the priority date (Article 31).
5. A copy of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
 - b. ☒ has been communicated by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a. ☐ is attached hereto.
 - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 34
 - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
 - b. ☒ have been communicated by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has **NOT** expired.
 - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ A English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11 To 20 below concern document(s) or information included:

11. ☒ An Information Disclosure Statement under 37 C.F.R. 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 C.F.R. 3.28 and 3.31 is included.
13. ☒ A FIRST preliminary amendment.
14. ☐ A SECOND or SUBSEQUENT preliminary amendment.
15. ☐ A substitute specification.
16. ☐ A change of power of attorney and/or address letter.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821-1.825.
18. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. ☐ Other items or information.

| U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.51) Unknown 806324 | | INTERNATIONAL APPLICATION NO. PCT/FI99/00800 | | ATTORNEY'S DOCKET NUMBER 227-139 | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------|--|-----------|---|--|--------|--------------|--------------|------|--|--------------|----|---------|-----------|---------|--------------------|---|--------|-----------|------|--|--|--|--|------------------|--------------------------------------|--|--|
| 21. <input checked="" type="checkbox"/> The following fees are submitted: | | | | CALCULATIONS PTO USE ONLY | | | | | | | | | | | | | | | | | | | | | | | | |
| BASIC NATIONAL FEE (37 C.F.R. 1.492(a)(1)-(5)): -- Neither international preliminary examination fee (37 C.F.R. 1.482) nor international search fee (37 C.F.R. 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO.....\$1000.00 -- International preliminary examination fee (37 C.F.R. 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO.....\$860.00 -- International preliminary examination fee (37 C.F.R. 1.482) not paid to USPTO but international search fee (37 C.F.R. 1.445(a)(2)) paid to USPTO.....\$710.00 -- International preliminary examination fee (37 C.F.R. 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4).....\$690.00 -- International preliminary examination fee (37 C.F.R. 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4).....\$100.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ENTER APPROPRIATE BASIC FEE AMOUNT = | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input checked="" type="checkbox"/> 30 months from the earliest claimed priority date (37 C.F.R. 1.492(e)). | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"><thead><tr><th style="width:20%;">CLAIMS</th><th style="width:20%;">NUMBER FILED</th><th style="width:20%;">NUMBER EXTRA</th><th style="width:20%;">RATE</th><th style="width:20%;"></th></tr></thead><tbody><tr><td>Total Claims</td><td>12</td><td>-20 = 0</td><td>X \$18.00</td><td>\$ 0.00</td></tr><tr><td>Independent Claims</td><td>1</td><td>-3 = 0</td><td>X \$80.00</td><td>0.00</td></tr><tr><td colspan="4">MULTIPLE DEPENDENT CLAIMS(S) (if applicable)</td><td>\$270.00 \$ 0.00</td></tr><tr><td colspan="4" style="text-align: right;">TOTAL OF ABOVE CALCULATIONS =</td><td>\$ 1130.00</td></tr></tbody></table> | | | | | | CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | | Total Claims | 12 | -20 = 0 | X \$18.00 | \$ 0.00 | Independent Claims | 1 | -3 = 0 | X \$80.00 | 0.00 | MULTIPLE DEPENDENT CLAIMS(S) (if applicable) | | | | \$270.00 \$ 0.00 | TOTAL OF ABOVE CALCULATIONS = | | |
| CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Claims | 12 | -20 = 0 | X \$18.00 | \$ 0.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| Independent Claims | 1 | -3 = 0 | X \$80.00 | 0.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| MULTIPLE DEPENDENT CLAIMS(S) (if applicable) | | | | \$270.00 \$ 0.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL OF ABOVE CALCULATIONS = | | | | \$ 1130.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2. | | | | SUBTOTAL = \$ 1130.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| Processing fee of \$130.00, for furnishing the English Translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 C.F.R. 1.492(f)). | | | | TOTAL NATIONAL FEE = \$ 1130.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| Fee for recording the enclosed assignment (37 C.F.R. 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 C.F.R. 3.28, 3.31). \$40.00 per property | | | | \$ 0.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| Fee for Petition to Revive Unintentionally Abandoned Application (\$1240.00 - Small Entity = \$620.00) | | | | \$ 0.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL FEES ENCLOSED = | | | | \$ 1130.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | Amount to be: refunded \$ | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | Charged \$ | | | | | | | | | | | | | | | | | | | | | | | | |
| a. <input checked="" type="checkbox"/> A check in the amount of \$1130.00 to cover the above fees is enclosed. b. <input type="checkbox"/> Please charge my Deposit Account No. 14-1140 in the amount of \$_____ to cover the above fees. A duplicate copy of this form is enclosed. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 14-1140. A duplicate copy of this form is enclosed. d. <input checked="" type="checkbox"/> The entire content of the foreign application(s), referred to in this application is/are hereby incorporated by reference in this application. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NOTE: Where an appropriate time limit under 37 C.F.R. 1.494 or 1.495 has not been met, a petition to revive (37 C.F.R. 1.137(a) or (b)) must be filed and granted to restore the application to pending status. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SEND ALL CORRESPONDENCE TO: NIXON & VANDERHYE P.C. 1100 North Glebe Road, 8 th Floor Arlington, Virginia 22201-4714 Telephone: (703) 816-4000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | |  SIGNATURE | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | Michael J. Keenan NAME | | | | | | | | | | | | | | | | | | | | | | | | |
| 32,106 REGISTRATION NUMBER | | | | March 29, 2001 Date | | | | | | | | | | | | | | | | | | | | | | | | |